0			2002/12/16 08:13	USPAT; US-PGPUB; EPO; JPO; DERWENT	y adj (lactic adj d-co-glycolic adj d)	poly acid- acid)	0	L10	BRS	ω
0			2002/12/16 08:12	USPAT; US-PGPUB; EPO; JPO; DERWENT	/ adj (lactic adj	52 poly acid)	1962	L9	BRS	7
0			2002/12/1 6 08:12	USPAT; US-PGPUB; EPO; JPO; DERWENT	adj (glycolic acid)	poly adj	992	L8	BRS	σ
0			2002/12/1 6 08:11	USPAT; US-PGPUB; EPO; JPO; DERWENT	adj (glycolide)	1 poly	474	L7	BRS	ഗ
0			2002/12/1 6 08:12	USPAT; US-PGPUB; EPO; JPO; DERWENT	adj ide-co-glycolide	poly a (lact	698	L6	BRS	44
0			2002/12/1 6 08:09	USPAT; US-PGPUB; EPO; JPO; DERWENT	polymeric adj matrix		7654	Ľ5	BRS	ω
0			2002/12/1 6 08:09	USPAT; US-PGPUB; EPO; JPO; DERWENT	(hyaluronic adj acid) or hyaluronate	(hy	8550	L4	BRS	Ν
0	•		2002/12/16 08:06	USPAT; US-PGPUB; EPO; JPO; DERWENT	injectable same formulation		8538	Ľ	BRS	Н
# E	Err Or Def ini tio	Comme	Time Stamp	DBs	Search Text	t s	Hits	₽ #	Туре	

0			2002/12/1 6 08:19	USPAT; US-PGPUB; EPO; JPO; DERWENT	or 7 or 8 or 9 r 13 or 14 or 6 or 17	5 or 6 or or 12 or 15 or 16	11747	L18	BRS	16
0			2002/12/1 6 08:17	USPAT; US-PGPUB; EPO; JPO; DERWENT	olymer same lyethylene adj col) same (lactide glycolide)	copolymer same (polyethylene glycol) same (or glycolide)	323	L17	BRS	15
0			2002/12/1 6 08:16	USPAT; US-PGPUB; EPO; JPO; DERWENT	esteramide	poly adj	134	L16	BRS	14
0			2002/12/1 6 08:16	USPAT; US-PGPUB; EPO; JPO; DERWENT	caprolactone	poly adj	1162	L15	BRS	13
0			2002/12/1 6 08:15	USPAT; US-PGPUB; EPO; JPO; DERWENT	etherester	poly adj	42	L14	BRS	12
0			2002/12/1 6 08:15	USPAT; US-PGPUB; EPO; JPO; DERWENT	orthoester	poly adj	103	L13	BRS	1 1
0			2002/12/1 6 08:15	USPAT; US-PGPUB; EPO; JPO; DERWENT	anhydride	poly adj	156	L12	BRS	10
0			2002/12/1 6 08:14	USPAT; US-PGPUB; EPO; JPO; DERWENT	(lactic adj co adj adj acid)	poly adj acid adj glycolic	0	L11	BRS	9
в о н н н ы	Err Or Def ini tio	Comme	Time Stamp	DBs	Search Text	Se	Hits	# T	Туре	

0		2002/12/1 6 09:02	USPAT; US-PGPUB; EPO; JPO; DERWENT	cleland adj jeffrey.in.	16	L24	BRS	22
0		2002/12/1 6 08:41	USPAT; US-PGPUB; EPO; JPO; DERWENT	4 same 18 same 22	22	L23	BRS	21
0		2002/12/1 6 08:41	USPAT; US-PGPUB; EPO; JPO; DERWENT	polypeptide or protein or peptide	29987	L22	BRS.	20
0		2002/12/1 6 08:40	USPAT; US-PGPUB; EPO; JPO; DERWENT	1 same 20	0	L21	BRS	19
0		2002/12/1 6 08:41	USPAT; US-PGPUB; EPO; JPO; DERWENT	4 same 18 same 19	2	L20	BRS	18
0		2002/12/16 08:22	USPAT; US-PGPUB; EPO; JPO; DERWENT	(growth adj hormone) or (hepatocyte adj growth adj factor) or HGF or (vascular adj endothelial adj factor) or VEGF or (glucagon-like adj peptide adj I) or GLP-I or (nerve adj growth adj facotr) or (insulin-like adj growth adj factor) or antibody	12013	L19	BRS	17
8 2 2 3 4 4 4 4 4 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8	Er: Comme De nts in ti	Time Stamp	DBs	Search Text	Hits	L #	Туре	

0			2002/12/1 6 09:05	USPAT; US-PGPUB; EPO; JPO; DERWENT	27 and (20 or 23)	0	L29	BRS	26
0			2002/12/1 6 09:04	USPAT; US-PGPUB; EPO; JPO; DERWENT	24 or 24 or 26	18	L27	BRS	25
0			2002/12/16 09:03	USPAT; US-PGPUB; EPO; JPO; DERWENT	okumu adj franklin.in.	ω	L26	BRS	24
0			2002/12/1 6 09:03	USPAT; US-PGPUB; EPO; JPO; .	lam adj xanthe.in.	10	L25	BRS	23
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 COST IN U.S. DOLLARS
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                                                                 SESSION
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                                                         0.21
 FULL ESTIMATED COST
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 FILE 'CAPLUS' ENTERED AT 09:43:56 ON 16 DEC 2002
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 FILE 'SCISEARCH' ENTERED AT 09:43:56 ON 16 DEC 2002
 COPYRIGHT (C) 2002 Institute for Scientific Information (ISI) (R)
 FILE 'AGRICOLA' ENTERED AT 09:43:56 ON 16 DEC 2002
 => s injectable formulation
            903 INJECTABLE FORMULATION
 L1
 => s (hyaluronic acid) or hyaluronate
          47346 (HYALURONIC ACID) OR HYALURONATE
* L2
 => s polymeric matrix
           5016 POLYMERIC MATRIX
 L3
 => s poly (w) (lactide-co-glycolide)
           1901 POLY (W) (LACTIDE-CO-GLYCOLIDE)
 L4
 => s (poly (w) glycolide) or (poly (w) (glycolic acid))
           1513 (POLY (W) GLYCOLIDE) OR (POLY (W) (GLYCOLIC ACID))
 L5
 => s (poly (w) (lactic acid)) or (poly (w) (lactic acid-co-glycolic acid))
    4 FILES SEARCHED...
           4449 (POLY (W) (LACTIC ACID)) OR (POLY (W) (LACTIC ACID-CO-GLYCOLIC
                ACID))
 => s polyanhydride or polyorthoester or polyetherester or polycaprolactone or polyesteramide
          10798 POLYANHYDRIDE OR POLYORTHOESTER OR POLYETHERESTER OR POLYCAPROLA
 L7
                CTONE OR POLYESTERAMIDE
 => s copolymer (p) (polyethylene glycol) (p) (lactide or glycolide)
            243 COPOLYMER (P) (POLYETHYLENE GLYCOL) (P) (LACTIDE OR GLYCOLIDE)
 L8
 => s 13 or 14 or 15 or 16 or 17 or 18
          22710 L3 OR L4 OR L5 OR L6 OR L7 OR L8
 L9
 => d his
      (FILE 'HOME' ENTERED AT 09:43:16 ON 16 DEC 2002)
      FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
      09:43:56 ON 16 DEC 2002
             903 S INJECTABLE FORMULATION
 L1
           47346 S (HYALURONIC ACID) OR HYALURONATE
 L2
            5016 S POLYMERIC MATRIX
 L3
            1901 S POLY (W) (LACTIDE-CO-GLYCOLIDE)
 L4
            1513 S (POLY (W) GLYCOLIDE) OR (POLY (W) (GLYCOLIC ACID))
 L5.
            4449 S (POLY (W) (LACTIC ACID)) OR (POLY (W) (LACTIC ACID-CO-GLYCOLI
 L6
           10798 S POLYANHYDRIDE OR POLYORTHOESTER OR POLYETHERESTER OR POLYCAPR
 L7
             243 S COPOLYMER (P) (POLYETHYLENE GLYCOL) (P) (LACTIDE OR GLYCOLIDE
 L8
           22710 S L3 OR L4 OR L5 OR L6 OR L7 OR L8
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L9

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=> s (growth hormone) or (hepatocyte rowth factor) or hgf or (vascu
                                                                        endothelial growth factor)
   4 FILES SEARCHED...
        272881 (GROWTH HORMONE) OR (HEPATOCYTE GROWTH FACTOR) OR HGF OR (VASCUL
L10
               AR ENDOTHELIAL GROWTH FACTOR) OR VEGF
=> s (glucagon-like peptide I) or glp-i or (nerve growth factor) or (insulin-like growth factor) o
   3 FILES SEARCHED...
       2565244 (GLUCAGON-LIKE PEPTIDE I) OR GLP-I OR (NERVE GROWTH FACTOR) OR
L11
               (INSULIN-LIKE GROWTH FACTOR) OR ANTIBODY
=> s 110 or 111
       2792815 L10 OR L11
L12
=> s 12 (p) 19 (p) 112
             0 L2 (P) L9 (P) L12
L13
=> s 12 (p) 19 (p) (protein or polypeptide or peptide)
   5 FILES SEARCHED...
             7 L2 (P) L9 (P) (PROTEIN OR POLYPEPTIDE OR PEPTIDE)
L14
=> duplicate remove 114
DUPLICATE PREFERENCE IS 'CAPLUS, BIOSIS, EMBASE, SCISEARCH!
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L14
              4 DUPLICATE REMOVE L14 (3 DUPLICATES REMOVED)
L15
=> d l15 1-4 ibib abs
L15 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
                         2001:713195 CAPLUS
ACCESSION NUMBER:
                         135:262308
DOCUMENT NUMBER:
                         Polymeric composite materials and their manufacture
TITLE:
                         Coombes, Allan Gerald Arthur; Downes, Sandra; Griffin,
INVENTOR(S):
                         Martin
                         University of Nottingham, UK; Nottingham Trent
PATENT ASSIGNEE(S):
                         University
                         PCT Int. Appl., 31 pp.
SOURCE:
                         CODEN: PIXXD2
                         Patent
DOCUMENT TYPE:
                         English
LANGUAGE:
                         1
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                                           APPLICATION NO.
                                                            DATE
                      KIND DATE
                                           WO 2001-GB1177
                                                            20010319
                            20010927
     WO 2001070293
                       A1
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
             RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                        GB 2000-6439
                                                         A 20000318
PRIORITY APPLN. INFO.:
     A method for the prepn. of a polymeric composite material comprises the
AB
     steps of (a) forming a porous body of a first polymer; (b) impregnating
     said porous body with a soln. of a second polymer; and (c) causing or
     allowing solvent to evap. from said body. The first polymer is preferably
     a natural polymer, e.g. collagen, and the second polymer is preferably a
     synthetic polymer, e.g. a polymer selected from the group consisting of
     poly(.alpha.-hydroxy acid) such as polylactide, poly(DL-lactide-co-
     glycolide), poly(.epsilon.-caprolactone), ***polyorthoesters*** ,
     polyphosphazenes, ***hyaluronic***
                                              ***acid***
                                                           esters,
       ***polyanhydrides*** , copolymers of such polymers and blends thereof.
     The composites are particularly useful in medical and biomedical
     applications. For example, collagen/ ***polycaprolactone***
     biocomposites were produced by freeze drying 2 mL of 0.25% collagen soln.
     and impregnation of lyophilized collagen within 2 mL of a
       ***polycaprolactone*** soln. in dichloromethane, followed by solvent
```

evapn. The biocomposite revealed a highly porous morphol. and virtually complete coverage of the collage component by ***polycaprolate ne***. A major fraction (approx. 70-100%) of the collagen content of biocomposites is accessible for digestion by collagenase indicating a high degree of collagen exposure/presentation for interaction with other

extracellular matrix ***proteins*** or cells contacting the biomaterial surface.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

ACCESSION NUMBER: 1997:57732 CAPLUS

DOCUMENT NUMBER: 126:176768

TITLE: Protein transport across hydrated hyaluronic acid ester membranes: Evaluation of ribonuclease A as a

potentially useful model protein

AUTHOR(S): Simon, L. D.; Charman, W. N.; Charman, S. A.; Stella,

V. J.

CORPORATE SOURCE: Department of Pharmaceutical Chemistry, University of

Kansas, Lawrence, USA

SOURCE: Journal of Controlled Release (1997), 45(3), 273-285

CODEN: JCREEC; ISSN: 0168-3659

PUBLISHER: Elsevier DOCUMENT TYPE: Journal LANGUAGE: English

The study of mechanisms governing release of ***proteins*** AB ***polymeric*** ***matrixes*** ***peptides*** from is often complicated by structural instability commonly assocd. with exposure of ***proteins*** to conditions used during matrix incorporation and subsequent release studies. The purpose of the present work was to investigate RNase A (RNase A) as a potential model ***protein*** ***protein*** release from matrixes composed of probing mechanisms of partially esterified ***hyaluronic*** ***acid*** . stability of RNase A and structural recovery following exposure to org. solvent were evaluated using a variety of anal. techniques, and the permeability of intact RNase A through partially esterified membranes was detd. RNase A showed ***hyaluronic*** ***acid***

excellent aq. stability and permeated ***hyaluronate*** membranes with no apparent changes in ***protein*** size. Also, while CD studies showed significant structural alteration of RNase A dissolved in an org. solvent, this alteration was largely reversible upon evapn. of the solvent and dissoln. of the ***protein*** residue in aq. buffer. The biol. activity of RNase A was maintained following diffusion through the polymer matrix and release from ***protein*** -loaded membranes. Permeability of RNase A through the partially esterified ***hyaluronic***

acid membranes was nonlinearly dependent on the degree of polymer esterification, and diffusion behavior of the ***protein*** in the hydrated polymer membranes was consistent with Yasuda's free vol. theory.

L15 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1995:412924 CAPLUS

DOCUMENT NUMBER: 122:170233

TITLE: Growth factor and collagen composition for

revitalizing scar tissue

INVENTOR(S): Berg, Richard A.; Rhee, Woonza Min

PATENT ASSIGNEE(S): Collagen Corp., USA SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT NO.	KIND	DATE	APPLICATION NO.	DATE	
		-				
EP	637450	A2	19950208	EP 1993-112761	19930809	
EP	637450	A3	19950405			
	R: AT, BE,	CH, DE	, DK, ES, FR,	GB, GR, IE, IT, LI	, LU, MC, NL,	PT, SE
JP	07089867	A2	19950404	JP 1993-198671	19930810	
CA	2103938	AA	19950205	CA 1993-2103938	19930812	
PRIORITY APPLN. INFO.:				US 1993-99241	19930804	
AB A	method is dis	closed	for remediati	on of scar tissue i	n a human or	an

animal by introducing into the car tissue or adjacent tissue a remedial compn. comprising naturally oc ring or synthetic growth factor and/or ***peptide*** segments. of naturally occurring and their active synthetic growth factors, and mixts. thereof. Typically the remedial compn. includes a biodegradable or nonbiodegradable support matrix material to provide for timed release of the bioactive material. Preferably, the support matrix is biodegradable and is selected from collagen, glycosaminoglycan, gelatin, albumin, ***hyaluronic*** ***acid*** , heparin, oxidized cellulose, dextran, polyglycolic acid, polylactic acid, ***polyanhydride*** , and mixts. thereof. To render the scar tissue less dense, to spatially expand the scar tissue fibrils, and to facilitate penetration of the remedial compn. into the scar tissue, a softening, expanding compn. is also introduced into the scar tissue prior to or simultaneously with the remedial compn. A preferred softening, expanding compn. includes .gtoreq.1 dried collagen-contg. polymer, .gtoreq.1 polymer hydrogel, and a nonaq. liq. carrier material. Thus, an injectable scar tissue-degrading compn. contained ***acid*** (3%, wt./vol.) and human gingival ***hyaluronic*** collagenase (1 mg/10 mL).

L15 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS 1993:610722 CAPLUS ACCESSION NUMBER: 119:210722 DOCUMENT NUMBER: Peptides for pharmaceuticals TITLE: Myoshi, Teruzo; Mimura, Shuji; Mitsuno, Tooru INVENTOR(S):

Denki Kagaku Kogyo Kk, Japan PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 10 pp. SOURCE:

CODEN: JKXXAF

Patent DOCUMENT TYPE: Japanese LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. JP 1992-85092 19920309 19930420 A2 JP 05097694 20020520 B2 JP 3283288

JP 1991-67674 A1 19910308 PRIORITY APPLN. INFO.: Therapeutic peptides with hyaluronates and polymers are stable and released from the formulation in a controlled manner. For example, an oral formulation was prepd. contg. Na hyaluronate and human interferon for treatment of cancer and viral infections.

=> d his

(FILE 'HOME' ENTERED AT 09:43:16 ON 16 DEC 2002)

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09:43:56 ON 16 DEC 2002
           903 S INJECTABLE FORMULATION
L1
          47346 S (HYALURONIC ACID) OR HYALURONATE
L2
           5016 S POLYMERIC MATRIX
L3
          1901 S POLY (W) (LACTIDE-CO-GLYCOLIDE)
L4
          1513 S (POLY (W) GLYCOLIDE) OR (POLY (W) (GLYCOLIC ACID))
L5
          4449 S (POLY (W) (LACTIC ACID)) OR (POLY (W) (LACTIC ACID-CO-GLYCOLI
L6
         10798 S POLYANHYDRIDE OR POLYORTHOESTER OR POLYETHERESTER OR POLYCAPR
L7
           243 S COPOLYMER (P) (POLYETHYLENE GLYCOL) (P) (LACTIDE OR GLYCOLIDE
L8
         22710 S L3 OR L4 OR L5 OR L6 OR L7 OR L8
L9
         272881 S (GROWTH HORMONE) OR (HEPATOCYTE GROWTH FACTOR) OR HGF OR (VAS
L10
        2565244 S (GLUCAGON-LIKE PEPTIDE I) OR GLP-I OR (NERVE GROWTH FACTOR) O
L11
        2792815 S L10 OR L11
L12
              0 S L2 (P) L9 (P) L12
L13
              7 S L2 (P) L9 (P) (PROTEIN OR POLYPEPTIDE OR PEPTIDE)
L14
             4 DUPLICATE REMOVE L14 (3 DUPLICATES REMOVED)
L15
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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT

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PROXIMITY OPERATOR LEVEL NOT CONSIST WITH
FIELD CODE - 'AND' OPERATOR ASSUMED L108 (P) L5'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L110 (P) L6'
L16
            0 L15 (P) L1
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     FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT
     09:43:56 ON 16 DEC 2002
           903 S INJECTABLE FORMULATION
L1
         47346 S (HYALURONIC ACID) OR HYALURONATE
L2
          5016 S POLYMERIC MATRIX
L3
         1901 S POLY (W) (LACTIDE-CO-GLYCOLIDE)
L4
         1513 S (POLY (W) GLYCOLIDE) OR (POLY (W) (GLYCOLIC ACID))
L5
         4449 S (POLY (W) (LACTIC ACID)) OR (POLY (W) (LACTIC ACID-CO-GLYCOLI
L6
L7
         10798 S POLYANHYDRIDE OR POLYORTHOESTER OR POLYETHERESTER OR POLYCAPR
L8
           243 S COPOLYMER (P) (POLYETHYLENE GLYCOL) (P) (LACTIDE OR GLYCOLIDE
         22710 S L3 OR L4 OR L5 OR L6 OR L7 OR L8
L9
        272881 S (GROWTH HORMONE) OR (HEPATOCYTE GROWTH FACTOR) OR HGF OR (VAS
L10
       2565244 S (GLUCAGON-LIKE PEPTIDE I) OR GLP-I OR (NERVE GROWTH FACTOR) O
L11
       2792815 S L10 OR L11
L12
             0 S L2 (P) L9 (P) L12
L13
             7 S L2 (P) L9 (P) (PROTEIN OR POLYPEPTIDE OR PEPTIDE)
L14
L15
             4 DUPLICATE REMOVE L14 (3 DUPLICATES REMOVED)
L16
          0 S L15 (P) L1
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                                                               140.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
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CA SUBSCRIBER PRICE
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                                                                -2.48
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STN INTERNATIONAL LOGOFF AT 10:05:12 ON 16 DEC 2002

FIELD CODE - 'AND' OPERATOR ASSUMED L106 (P) L4'

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FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT

09:43:56 ON 16 DEC 2002

- L1 903 S INJECTABLE FORMULATION
- L2 47346 S (HYALURONIC ACID) OR HYALURONATE
- L3 5016 S POLYMERIC MATRIX
- L4 1901 S POLY (W) (LACTIDE-CO-GLYCOLIDE)
- L5 1513 S (POLY (W) GLYCOLIDE) OR (POLY (W) (GLYCOLIC ACID))
- L6 4449 S (POLY (W) (LACTIC ACID)) OR (POLY (W) (LACTIC ACID-CO-GLYCOLI
- L7 10798 S POLYANHYDRIDE OR POLYORTHOESTER OR POLYETHERESTER OR POLYCAPR
- L8 243 S COPOLYMER (P) (POLYETHYLENE GLYCOL) (P) (LACTIDE OR GLYCOLIDE
- L9 22710 S L3 OR L4 OR L5 OR L6 OR L7 OR L8
- L10 272881 S (GROWTH HORMONE) OR (HEPATOCYTE GROWTH FACTOR) OR HGF OR (VAS
- L11 2565244 S (GLUCAGON-LIKE PEPTIDE I) OR GLP-I OR (NERVE GROWTH FACTOR) O
- L12 2792815 S L10 OR L11
- L13 0 S L2 (P) L9 (P) L12
- L14 7 S L2 (P) L9 (P) (PROTEIN OR POLYPEPTIDE OR PEPTIDE)
- L15 4 DUPLICATE REMOVE L14 (3 DUPLICATES REMOVED)
- L16 0 S L15 (P) L1

 $\Rightarrow \log y$